

# Product Document

# Material Declaration Form

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ams AG  
Tobelbader Strasse 30  
A-8141 Premstaetten, Austria  
Tel +43 (0) 3136 500-0



| Ordering Code | Package Family   | Assembly Material Number | Lead Count | Weight (mg) | Manufacturing Country | Halogen Free | EU RoHS | China RoHS | Release Status | Version |
|---------------|------------------|--------------------------|------------|-------------|-----------------------|--------------|---------|------------|----------------|---------|
| AS3415-EQFM   | punched QFN 32ld | 191150015                | 32         | 71.97       | Korea                 | YES          | YES     | YES        | FULL           | 1       |

| Homogenous Material | Weight (mg) | Symbol           | Chemical Substance  | Input Ratio (%) | CAS Number    | Unit Weight (mg) | Unit Weight (%) | Amount (ppm)    |
|---------------------|-------------|------------------|---------------------|-----------------|---------------|------------------|-----------------|-----------------|
| Leadframe           | 31.17       | Ag               | Silver              | 0.30            | 7440-22-4     | 0.09352          | 0.12994         | 1299            |
|                     |             | Cu               | Copper              | 97.25           | 7440-50-8     | 30.31499         | 42.12155        | 421216          |
|                     |             | Fe               | Iron                | 2.30            | 7439-89-6     | 0.71696          | 0.99619         | 9962            |
|                     |             | Zn               | Zinc                | 0.15            | 7440-66-6     | 0.04676          | 0.06497         | 650             |
|                     |             | <b>Subtotal:</b> |                     |                 | <b>100.00</b> |                  | <b>31.17223</b> | <b>43.31265</b> |
| Adhesive            | 0.43        | Ag               | Silver              | 77.00           | 7440-22-4     | 0.33249          | 0.46198         | 4620            |
|                     |             | BLO (1-10)       | Gamma Butyrolactone | 1.00            | 96-48-0       | 0.00432          | 0.00600         | 60              |
|                     |             |                  | Epoxy Resin         | 22.00           | 25928-94-3    | 0.09500          | 0.13199         | 1320            |
|                     |             | <b>Subtotal:</b> |                     |                 | <b>100.00</b> |                  | <b>0.43180</b>  | <b>0.59997</b>  |
| IC                  | 2.4         | Si               | Silicon             | 100.00          | 7440-21-3     | 2.40456          | 3.34105         | 33410           |
|                     |             | <b>Subtotal:</b> |                     |                 | <b>100.00</b> |                  | <b>2.40456</b>  | <b>3.34105</b>  |
| Wire                | 0.16        | Cu               | Copper              | 97.30           | 7440-50-8     | 0.15693          | 0.21804         | 2180            |
|                     |             | Pd               | Palladium           | 2.70            | 7440-05-3     | 0.00435          | 0.00605         | 61              |
|                     |             | <b>Subtotal:</b> |                     |                 | <b>100.00</b> |                  | <b>0.16128</b>  | <b>0.22409</b>  |
| Moldcompound        | 36.52       | SiO2             | Silica Fused        | 85.00           | 60676-86-0    | 31.03826         | 43.12650        | 431265          |
|                     |             |                  | Carbon Black        | 0.30            | 1333-86-4     | 0.10955          | 0.15221         | 1522            |
|                     |             |                  | Epoxy Resin         | 9.00            | 25928-94-3    | 3.28640          | 4.56634         | 45663           |
|                     |             |                  | Phenol Resin        | 5.70            | 28064-14-4    | 2.08139          | 2.89201         | 28920           |
|                     |             | <b>Subtotal:</b> |                     |                 | <b>100.00</b> |                  | <b>36.51560</b> | <b>50.73706</b> |

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| Homogenous Material | Weight (mg)  | Symbol | Chemical Substance | Input Ratio (%) | CAS Number | Unit Weight (mg) | Unit Weight (%)  | Amount (ppm)   |
|---------------------|--------------|--------|--------------------|-----------------|------------|------------------|------------------|----------------|
| Plating             | 1.28         | Sn     | Tin                | 100.00          | 7440-31-5  | 1.28480          | 1.78518          | 17852          |
| <b>Subtotal:</b>    |              |        |                    | <b>100.00</b>   |            | <b>1.28480</b>   | <b>1.78518</b>   | <b>17852</b>   |
| <b>Total:</b>       | <b>71.97</b> |        |                    |                 |            | <b>71.97</b>     | <b>100.00000</b> | <b>1000000</b> |

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